



WoodPerfect™ Advanced Performance Wood Flooring Adhesive

1. PRODUCT NAME

TEC® WoodPerfect™ Advanced Performance Wood Flooring Adhesive (791)

2. MANUFACTURER

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3. DESCRIPTION

TEC® WoodPerfect™ Advanced Performance Wood Flooring Adhesive is a groundbreaking development in wood flooring adhesives that maximizes performance with installer-friendly benefits. Unlike premium urethanes, WoodPerfect™ delivers one-step moisture control, strong initial grab, sound deadening and crack bridging capabilities in an installer-friendly, lightweight formula that's easy to apply and easy to clean.

Key Features and Benefits

- Fast initial grab — holds wood in place without shifting
- Smooth, low odor, isocyanate free, installer-friendly formula
- No width or length limitations, though nailing (in addition to the adhesive) is recommended for widths over 10" (25 cm) if flooring is 3/4" (19 mm) or thicker solid or reclaimed wood.
- Apply to damp concrete (up to 95% RH)
- Moisture control up to 15 lbs.
- Delta IIC 22 dB Sound reduction contribution — reduces sound transmission through concrete subfloors in excess of building code requirements
- Cleans easily from flooring with no solvents — less time and labor
- Notched trowel ridges hold firm — minimizes hollow spots and bridges gaps between floor and substrate
- One-step installation with Moisture/Sound Inhibitor trowel
- 60-90 minutes of open time — less waste from product skinning over
- Contributes to LEED® project points
- Low VOC

Packaging

4 gallon plastic pail (15.13 L)

Product #7183181311

Coverage

Determine recommended trowel size based on flooring type. Coverage will vary with the absorption of substrate and trowel size. Figures below are presented only as guidelines.

Flooring Type	Recommended Trowel Size	Approximate Coverage
Solid wood, engineered wood, solid bamboo	3/16" x 1/4" x 1/2" (4.7 x 6 x 12 mm) FV trowel	75-85 sq. ft./gal. (1.83-2.08 m ² /L)
Parquet	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) square-notch trowel	60-70 sq. ft./gal. (1.47-1.71 m ² /L)
All wood types with moisture inhibitor or sound reduction layer	3/16" x 1/4" x 1/2" (4.7 x 6 x 12 mm) Moisture/Sound Inhibitor trowel*	30-35 sq. ft./gal. (0.73-0.85 m ² /L)
Cork with no backer, cork underlayment	1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) square-notch trowel	120-140 sq. ft./gal. (2.94-3.43 m ² /L)

*One trowel per pail required due to trowel wear.

Suitable Substrates

When properly prepared, suitable substrates include:

- Concrete slabs
- OSB (underlayment grade)
- Plywood (underlayment grade)
- Particle or chipboard (underlayment grade)
- Adhesive residue (except tacky or pressure-sensitive adhesive)
- Damp concrete with a moisture vapor emission rate of 3 to 15 lbs./1,000 sq. ft./24 hrs. (1.36-6.80 kg/93 m²/24 hrs.) or up to 95% RH requires application with the Moisture/Sound Inhibitor trowel. For concrete with greater moisture levels, treat the concrete with TEC® LiquiDam™ Penetrating Moisture Vapor Barrier or LiquiDam EZ™ Moisture Vapor Barrier.
- Cured leveling compounds
- Radiant heated subfloors
- Ceramic tiles
- Stone, terrazzo
- Cork underlayment

Approved Flooring

- Engineered wood flooring up to 96" long or 8" wide*
- Wood flooring shorts
- Solid wood flooring (must be straight and flat)
- Wood inlay
- Cork with no backer
- Ceramic, stone or tile in mixed mosaics - in dry areas only
- Strip flooring
- Planks
- Parquet
- Reclaimed wood
- Bamboo flooring

* For lengths or widths greater than this, contact TEC® Technical Support to discuss the details.

Substrate Preparation

Prior to installation, the subfloor must be checked according to NWFA installation guidelines. It must be solid and sound, flat, permanently dry, clean, free of chips, indentations and anti-adherents, as well as resistant to pressure and tension. Moisture content of all floors must be measured before installation.

Moisture content in concrete subfloors must be below 3 lbs./1,000 sq. ft./24 hrs. (1.36 kg/93 m²/24 hrs.) using the Calcium Chloride Test or below 75% RH using an in-situ probe. For concrete with a moisture vapor emission rate of 3 to 15 lbs./1,000 sq. ft./24 hrs. (1.36-6.80 kg/93 m²/24 hrs.) or 75%-95% RH, apply WoodPerfect™ with the Moisture/Sound Inhibitor trowel. For concrete with greater moisture levels, treat the concrete with TEC® LiquiDam™ Penetrating Moisture Vapor Barrier.

If the substrate is gypsum, the surface must be primed with TEC® Multipurpose Primer, according to the product data sheet for that product, available on tecspecialty.com.

All wood floors should have a minimum 6-9% moisture content at installation. There should be no more than a 4-5% variance in moisture content between the wood flooring and any wood subfloor. See NWFA installation guidelines and the wood flooring manufacturer's recommendations for details.

Substrate must be sound, smooth, level, clean and dry. It must be free of dust, dirt, wax, loose paint, all curing compounds or fire retardant chemicals, fungicides, release agents, sealers, or any other foreign substances that might interfere with a good bond. Depending on type and condition of subfloor, a mechanical treatment (e.g. shot blasting, grinding or sanding) may be required. Intensity of such work must be determined at the site by the installer. Dust, paint, residual adhesives** or other surface pollution must be removed by suitable means. Cleaning the surface with an industrial vacuum cleaner is recommended. When using this product as a moisture inhibitor, all static cracks, joints and gaps must be treated before applying WoodPerfect™, as indicated below. Level the sub-floor, when necessary, to 3/16 inches within 10 feet (4.7 mm in 3 m), before applying WoodPerfect™.

Joint or Crack Pre-Treatment

When WoodPerfect™ is used as a moisture barrier, cracks, cuts and static (non-moving) joints in the sub-floor must be sealed, using the following guidelines:

- **For Static Cracks, Cuts or Joints less than 1 mm wide:** there is no need to pre-treat, as long as the adhesive is applied in a continuous film over the crack or cut.
- **For Static Cracks / Control Joints over 1 mm wide:** remove dirt, debris or existing sealant from cracks and joints, then use a concrete crack filler, such as TEC® PerfectFinish™ Skim Coat or VersaPatch® Latex Modified Floor Patch,

and allow to dry according to directions on the Product Data Sheet, to fill in joints and cracks up to level with the concrete surface. Crack filler must be dry before applying WoodPerfect™.

- **For patching or filling larger areas of several square feet or more:** remove dirt, debris or existing sealant from cracks and joints, then use a concrete crack filler, such as TEC® Fast-Set Deep Patch Underlayment 305, PerfectFinish™ Skim Coat, or VersaPatch® Latex Modified Floor Patch. Allow the crack filler to dry at least 16 hours, according to instructions on the Product Data Sheets, then apply WoodPerfect™. For help selecting the correct TEC® crack or joint filler, call Technical Services.

Treat all dynamic (movement) joints with WoodPerfect™ by applying a layer into the joint edges with a paintbrush to completely coat the walls of the cavity. Once dried, fill the dynamic joint with backer rod, leaving a minimum of ½" (12 mm) open at the top for proper treatment with a sealant.

Note: There is a major difference between the proper application of flooring over static vs. dynamic joints, as well as variations based upon the type of flooring being installed. Please follow appropriate industry standards, as well as flooring manufacturer recommendations for treatment of joints.

Substrate, adhesive and wood flooring must be acclimated in an enclosed building with the HVAC operational and running for at least 72 hours before, during and after the installation. The installation temperature and relative humidity must be controlled between 60°F (15°C) and 85°F (30°C), and between 30% and 65% relative humidity, subject to the floor manufacturer's requirements. Open time will vary with temperature and humidity or porosity of the substrate.

Note: Wood flooring must be exposed to the air when being acclimated. However, follow the wood flooring manufacturer's guidelines regarding site conditions and installation.

**Cutback Adhesive Residue (non-asbestos) – Application over asphalt-based cutback adhesive residue is acceptable provided the residue is well bonded. Subfloor preparation of the existing cutback adhesive requires only that the ridges or high spots be knocked off, typically with 1-3 passes of a mechanical scraper. NOTE: Mechanical removal of cutback by sanding, grinding or blasting can be hazardous since old cutback adhesive may contain asbestos. Harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Consult all applicable government agencies for rules and regulations concerning the removal of floorings and adhesives that contain asbestos. Tacky or pressure-sensitive adhesive must be mechanically removed by a method such as shot blasting.

Storage

Store in cool, dry location. Do not store near heat or fire. Do not store open containers.

Shelf Life

Maximum of 1 year from date of manufacture in unopened container.

Limitations

- For interior use only.
- Slab temperature should be between 50°F and 100°F (10°C and 38°C) during installation.
- Do not use on wet, dusty, contaminated or brittle substrates.
- Do not use over substrates or slabs treated with sealers or curing compounds.
- Do not use in areas subject to hydrostatic pressure.
- Do not use over perimeter bonded flooring material.
- Below grade applications are limited to manufacturer's recommendations for approved wood flooring. Conditions for below grade applications must meet a vapor emission rate < 3 lbs./1,000 sq. ft./24 hrs. (1.36 kg/93 m²/24 hrs.) based on the Calcium Chloride Test. If concrete conditions exceed the allowable moisture content, please consult with a TEC® technical advisor.
- Do not install solid wood flooring over VCT/vinyl. Refer to wood flooring manufacturer's recommendation for proper expansion relief around perimeter or throughout installation.
- Follow solid hardwood flooring installation recommendations for bamboo installations.
- Will not prevent moisture-related damage to wood flooring installations.
- Use over gypsum based patch/underlayments is limited to dry, above grade installations where gypsum has dried, and is free from dust or powder, and has been properly primed, as outlined in the Substrate Preparation section above.

Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC® brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Physical Properties

WoodPerfect™ Advanced Performance Wood Flooring Adhesive (791)	
Description	
Physical State	Soft paste
Color	Off-white
Open Time	60-90 minutes
ASTM E2179-03 Increased Impact Insulation	Delta IIC 22 dB
ASTM E492-09 Impact Sound Performance	
• 6" (15 cm) concrete slab with no ceiling	IIC 51 dB
• 6" (15 cm) concrete slab with ½" (15 mm) gypsum board ceiling	IIC 60 dB
ASTM E90-09 Airborne Sound Performance	
• 6" (15 cm) concrete slab with no ceiling	STC 52 dB
• 6" (15 cm) concrete slab with ½" (15 mm) gypsum board ceiling	STC 60 dB
VOC	2% by weight, 47 g/L material
Freeze/Thaw Stability	Stable
Storage	Store in cool, dry location. Do not store in open containers.
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.

5. INSTALLATION INSTRUCTIONS

Application

Do not smoke and keep away from flames or sparks.

1. Follow wood flooring manufacturer's guidelines for layout, design and any special precautions for installation.
2. Spread the adhesive with the appropriate notched trowel. For moisture inhibitor or sound reduction installations, use the moisture/sound inhibitor trowel. Avoid excessive adhesive thickness by passing the trowel evenly through the adhesive at a 45 degree angle. Install wood flooring immediately after adhesive is spread. Working time is 60-90 minutes under acceptable temperature and humidity conditions. Adhesive must transfer 100% to the wood floor. NOTE: Thin-gauged solid and engineered wood and exotic species are very sensitive to job site conditions. Wood flooring manufacturers written pre-installation and installation instructions, including acclimation of the wood flooring, must be strictly followed.
3. Lay the flooring into the adhesive, correctly position it and press down firmly. Wood may slip and move at first so be sure to secure the initial row to limit movement and hold patterns. Occasionally lift a piece of wood to assure adhesive is achieving 100% transfer. If proper transfer is not achieved remove dried adhesive and apply more using recommended trowel. The use of tape to temporarily hold the edges together may be necessary until installation is complete. Bowed boards or boards over low spots should be weighted down until the adhesive cures.
4. When installing near a solid object or wall, leave ample room for expansion (see flooring manufacturer's recommended expansion guidelines). Installing wood too tight against a stationary object will not allow room for normal wood expansion, which may cause a failure.
5. Roll and cross roll floor with a 100-150 lb. (45-70 kg) roller at the end of the installation to ensure proper transfer of adhesive.

- When installing unfinished wood flooring, wait a minimum of 72 hours before sanding.
- When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and 24 hours after installation. Failure to turn the heat off may result in shortened working time of the adhesive. Floor temperature must not exceed 85°F (30°C).
- Restrict light traffic for a minimum of 16 hours. Restrict heavy traffic for a minimum of 24 hours after installation is complete.

Clean-up

Wipe up with a dry cloth while product is still wet. Use plastic scraper and terry cloth when dry.

6. AVAILABILITY

TEC® Premium Tile and Stone Installation Products are available nationwide.

To locate TEC® products in your area, please contact:

Phone: 800-832-9002

Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Division 9



tecspecialty.com

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